

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S4    | 1471 | 702/6-13.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/05/09 15:22 |
| S5    | 24   | S4 and (driver same power) and (power same (length or temperature))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/05/09 15:27 |
| S6    | 12   | "5365229"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | OFF     | 2006/05/10 15:18 |
| S7    | 2    | (well-log\$4 or (well adj1 log\$4)) and ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) same (cable near2 (length or temperature of material))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:30 |
| S8    | 2    | (well-log\$4 or (well adj1 log\$4)) and (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) same (cable near2 (length or temperature of material)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:32 |
| S9    | 2    | (well-log\$4 or (well adj1 log\$4)) and (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) same (cable near4 (length or temperature of material)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:31 |
| S10   | 457  | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) same (cable near4 (length or temperature of material)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/10 15:36 |
| S11   | 457  | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) same (cable near4 (length or temperature or material)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:32 |
| S12   | 31   | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4) near3 power) with (driver or amplifier)) same (cable near4 (length or temperature or material))               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:32 |
| S13   | 48   | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (driver or amplifier)) same (cable near4 (length or temperature or material)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/05/09 15:34 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S14 | 2   | (well-log\$4 or (well adj1 log\$4)) and (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 (length or temperature or material))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/09 15:32 |
| S15 | 377 | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (driver or amplifier)) with cable  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/09 15:35 |
| S16 | 137 | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (driver or amplifier)) with cable) same (transmit\$4 or transmission)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 12:40 |
| S17 | 2   | ("6493395").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 19:06 |
| S18 | 335 | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) with (driver or amplifier)) same (cable)) same (transmit\$4 or transmission)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 13:08 |
| S19 | 0   | S18 and (train\$4 same (bits near3 (carrier or channel)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 12:30 |
| S20 | 16  | S18 and (multicarrier or multi-carrier or "DMT")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 16:35 |
| S21 | 60  | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) with (driver or amplifier)) same (cable)) same (measur\$4)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:55 |
| S22 | 168 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 loss)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 12:41 |
| S23 | 5   | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 loss)) same (measur\$4 near3 signal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 16:48 |
| S24 | 30  | (((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 loss)) and (measur\$4 near3 signal)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 12:46 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S25 | 116   | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable)) same (measur\$4 near3 signal)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:53 |
| S26 | 5     | ((well adj1 log\$4) or well-log\$4) same (multicarrier or multi-carrier or "DMT")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:48 |
| S27 | 2260  | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (measur\$4 same receiver)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:54 |
| S28 | 1214  | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (measur\$4 with receiver)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:54 |
| S29 | 633   | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (transmit\$4 or transmissiion)) same (measur\$4 with receiver)             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:55 |
| S30 | 16    | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (transmit\$4 or transmissiion)) same (measur\$4 with receiver) same cable) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 12:56 |
| S31 | 99    | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (transmit\$4 or transmissiion)) same (measur\$4) same cable)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 13:00 |
| S32 | 57375 | (control\$4 near2 power).ti.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 13:00 |
| S33 | 1236  | S32 and (power same cable)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 13:01 |
| S34 | 23    | S33 and ((measur\$4 or calculat\$4) with receiver)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 13:01 |
| S35 | 1041  | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) with (driver or amplifier)) same (cable))                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 13:10 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S36 | 12    | S35 and (transmit\$4 adj2 power adj1 (control\$4 or adjust\$4) adj2 (signal or message or bit or command))     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 13:11 |
| S37 | 23272 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) same (cable)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 13:10 |
| S38 | 104   | S37 and (transmit\$4 adj2 power adj1 (control\$4 or adjust\$4) adj2 (signal or message or bit or command))     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 13:30 |
| S39 | 2     | ("6522731").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 13:30 |
| S40 | 1     | S39 and train\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 13:30 |
| S41 | 2     | ("6493395").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 15:22 |
| S42 | 1     | S41 and train\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 15:22 |
| S43 | 19490 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:46 |
| S44 | 168   | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 loss)        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:46 |
| S45 | 26    | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) same (cable near2 attenuation) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:39 |
| S46 | 17    | S44 and (measur\$4 same receiver)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:41 |
| S47 | 11035 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near3 power) with (cable)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 15:47 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S48 | 13373 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) with (cable)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 15:48 |
| S49 | 145   | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) with (cable)) same (transmit\$4 near3 (power adj2 (signal or message or command or bit))            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 15:53 |
| S50 | 13261 | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) and ((transmit\$4 with ((adjust\$4 or control) adj1 signal)) same power)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 15:56 |
| S51 | 1312  | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) and (((transmit\$4 with ((adjust\$4 or control) adj1 signal)) same power) same measur\$4)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 15:57 |
| S52 | 278   | ((adjust\$4 or chang\$4 or increas\$4 or decreas\$4 or control\$4) near4 power) and (((transmit\$4 with ((adjust\$4 or control) adj1 signal)) same power) same measur\$4) and cable | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:05 |
| S53 | 202   | ((power near2 (control or adjust\$4)) near3 (feedback or feed-back)).ti.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:07 |
| S54 | 2     | S53 and cable   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:06 |
| S55 | 104   | (multicarrier or multi-carrier or "DMT") and (train\$4 same (bits near3 carrier))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:45 |
| S56 | 61    | S55 and (train\$4 near2 (signal or sequence or pattern))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:53 |
| S57 | 9     | "6519291"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:45 |
| S58 | 0     | (multicarrier or multi-carrier or "DMT") and (train\$4 same (loss near3 synchroniz\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/05/10 16:46 |

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|     |         |   |   |    |     |                  |
|-----|---------|---|---|----|-----|------------------|
| S59 | 0       | (multicarrier or multi-carrier or "DMT") and (train\$4 same (loss with synchroniz\$4))                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 16:46 |
| S60 | 128     | (multicarrier or multi-carrier or "DMT") and (train\$4 with synchroniz\$4)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 16:46 |
| S61 | 2       | ("6519291").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 16:48 |
| S62 | 1       | S61 and train\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 16:48 |
| S63 | 730     | S55 and (train\$4 near2 (signal or sequence or pattern)) and retrain\$4 or re-train\$4                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 16:54 |
| S64 | 10      | S55 and (train\$4 near2 (signal or sequence or pattern)) and (retrain\$4 or re-train\$4)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 17:00 |
| S65 | 3365132 | S55 and (train\$4 near2 (signal or sequence or pattern)) and (retrain\$4 or re-train\$4) an power               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 17:03 |
| S66 | 1       | S55 and (train\$4 near2 (signal or sequence or pattern)) and ((retransmit\$4 or re-transmit\$4) near4 train\$4) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 17:01 |
| S67 | 10      | S55 and (train\$4 near2 (signal or sequence or pattern)) and (retrain\$4 or re-train\$4) and power              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 17:45 |
| S68 | 2       | ("6469636").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 17:06 |
| S69 | 6       | S55 and (train\$4 near2 (signal or sequence or pattern)) and (retrain\$4 or re-train\$4) and power and pilot    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/10 17:45 |
| S70 | 2       | ("6493395").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/05/10 19:06 |

## EAST Search History

|     |     |  |  |    |     |                  |
|-----|-----|--|--|----|-----|------------------|
| S71 | 1   | S70 and train\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT. | OR | OFF | 2006/05/10 19:09 |
| S72 | 2   | ("5812599").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | OFF | 2006/12/24 12:05 |
| S73 | 1   | "6473438".pn. and power  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/23 19:02 |
| S74 | 0   | (power adj1 level) same<br>(bits-per-carrier)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/23 19:06 |
| S75 | 50  | (power adj1 level) same (bits near2<br>carrier)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/23 19:08 |
| S76 | 12  | S75 and "DMT"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/23 19:06 |
| S77 | 140 | ((adjust\$4 or chang\$4 or increas\$4<br>or decreas\$4) near3 power) and (bit<br>near3 carrier) and "DMT"              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/23 19:09 |
| S78 | 2   | ("6529710").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | OFF | 2006/12/24 12:07 |
| S79 | 28  | "DMT" and ((measur\$4 near4<br>(signal)) same ((adjust\$4 or<br>chang\$4 or increas\$4 or decreas\$4)<br>near3 power)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/24 12:14 |
| S80 | 5   | S79 and (bits near3 carrier)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/24 12:14 |
| S81 | 18  | S79 and (bits near3 (carrier or<br>channel or subchannel or subcarrier<br>or sub-channel or sub-carrier))              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT  | OR | ON  | 2006/12/24 12:15 |